BOARD QUESTION PAPER : FEBRUARY 2020

MATHEMATICS AND STATISTICS

Time: 3 Hours   Max. Marks: 80

General Instructions:
The question paper is divided into FOUR sections.

1. *Section A: Q. 1 contains Eight multiple choice type of questions carrying Two marks.*
   Q. 2 contains Four sub-questions each carrying One mark each.
2. *Section B: Q. 3 to Q. 14 each carries Two mark.(Attempt any Eight)*
3. *Section C: Q. 15 to Q. 26 carries Three marks.(Attempt any Eight)*
4. *Section D: Q. 27 to Q. 34 each carries Four marks.(Attempt any Five)*
5. *Use of log table is allowed. Use of calculator is not allowed.*
6. *Figures to the right indicate full marks.*
7. *Use of graph paper is not necessary. Only rough sketch of graph is expected.*
8. *For each MCQ, correct answer must be written along with its alphabet:*
   e.g.(a) ———— (b) ———— (c) ———— (d) ———— etc.
9. *Start answers to each section on a new page.*

SECTION- A

Q.1. Select and write the most appropriate answer from the given alternatives for each question: [16]

i. In $\triangle ABC$, if $a = 2$, $b = 3$ and $\sin A = \dfrac{2}{3}$, then $\angle B = $ _____ .

    (A) $\dfrac{\pi}{4}$ (B) $\dfrac{\pi}{2}$ (C) $\dfrac{\pi}{3}$ (D) $\dfrac{\pi}{6}$ (2)

ii. If $\bar{a} = 3\hat{i} - \hat{j} + 4\hat{k}$, $\bar{b} = 2\hat{i} + 3\hat{j} - \hat{k}$ and $\bar{c} = -5\hat{i} + 2\hat{j} + 3\hat{k}$, then $\bar{a}\cdot(\bar{b} \times \bar{c})$ is _____ .

    (A) 100   (B) 110   (C) 109   (D) 108
    (2)

iii. The cartesian equation of the line passing through the points A(4, 2, 1) and B(2, −1, 3) is _____ .

    (A) $\dfrac{x+4}{2} = \dfrac{y-2}{3} = \dfrac{z-1}{-2}$ (B) $\dfrac{x-4}{-2} = \dfrac{y-2}{-3} = \dfrac{z-1}{-2}$

    (C) $\dfrac{x-4}{2} = \dfrac{y-2}{3} = \dfrac{z-1}{-2}$ (D) $\dfrac{x-4}{-2} = \dfrac{y-2}{3} = \dfrac{z-1}{-2}$ (2)

iv. If the line $\bar{r} = (\hat{i} - 2\hat{j} + 3\hat{k}) + \lambda(2\hat{i} + \hat{j} + 2\hat{k})$ is parallel to the plane $\bar{r}\cdot(3\hat{i} - 2\hat{j} + m\hat{k}) = 10$, then value of m is _____ .

    (A) -2 (B) 2   (C) ± 2 (D) 0   (2)

v. If $f(x) = 1 - x$, for $0 < x \le 1 = k$, for $x = 0$ is continuous at $x = 0$, then $k = $ _____ .

    (A) 0   (B) -1 (C) 2   (D) 1   (2)

vi. The function $f(x) = x^x$ is minimum at $x = $ _____ .

    (A) e   (B) $-e$ (C) $\dfrac{1}{e}$ (D) $-\dfrac{1}{e}$ (2)

vii. If $\int_{0}^{k} 4x^3 dx = 16$, then the value of k is _____ .

    (A) 1   (B) 2   (C) 3   (D) 4   (2)

Hsc Board Maths Question Paper 201

Mark Milton Arnold

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